

**OCRM**

# **HOOD CANAL COORDINATING COUNCIL**

## **WETLANDS IDENTIFICATION PROJECT CZM 89063**

### **FINAL REPORT 1989**

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1989



**KITSAP COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT**

**614 DIVISION STREET • PORT ORCHARD, WASHINGTON 98366 • (206) 876-7181**

Q487.3 W48 1989

ABSTRACT

1. Title: Volunteer Wetlands Inventory Project
2. Author: Hood Canal Coordinating Council and  
Adopt-A- Beach with Esther Howard, Biologist
3. Subject: Wetland Identification skills
4. Date: June 30, 1989
5. Department: Department of Ecology, Kitsap County Department of  
Community Development, Mason County Planning Department,  
Jefferson County Planning Department, Point No Point Tribal  
Council, Skokomish Tribe, Port Gamble-Clallum Tribe.
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614 Division Street  
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7. Project No. CZM G0089063
8. Series No. 1
9. Pages: 96 pages/with large maps
10. Abstract: This report is a Final report of the Hood Canal  
Coordinating Council's 1989 Volunteer Wetland Inventory Project. The  
Council obtained the services of a professional biologist to inventory  
three wetlands one in each participating County. The wetlands included  
Shine Creek in Jefferson County, Miller Creek in Kitsap County and a  
tributary of the Tahuya River in Mason County. The Biologist worked  
with a citizen organizing group, Adopt-A-Beach to identify, train and  
utilize volunteers in wetland identification. The biologist and  
volunteers used the United States Fish and Wildlife Definition of  
wetlands. The Biologist reviewed all inventoried sites and made final  
determinations. The report discusses work of the Biologist and  
volunteers; quality of the work; usefulness of training sessions, field  
trips; efforts of the volunteers, and makes recommendations for improved  
use of wetland volunteers in the future. The results of the Mapping and  
inventory exercise and inventory sheets are included in the appendix.

**VOLUNTEER WETLANDS INVENTORY  
PROJECT**

**HOOD CANAL COORDINATING COUNCIL**

**FINAL REPORT**

**June 1989**

**PURPOSE**

The purpose of the Volunteer Wetlands Inventory Project was to implement a program of citizen stewardship and public education for inadequately protected or documented wetlands in Hood Canal drainages. The selected drainages were Shine Creek (Jefferson County), Miller Creek (Kitsap County) and Tahuya Creek (Mason County). The project was operational between January 1989 and June 1989. Field work began in April and ended by mid-June.

**OBJECTIVES**

1. To recruit citizens and train them to visually assess wetland types and functions.
2. To coordinate citizens who will be conducting a wetland baseline survey of undocumented or poorly documented wetlands. The survey results will help classify these wetlands for long term and short term land use decisions.
3. To educate the public and local decision makers on the state of wetlands in the target areas.

**PRINCIPALS**

Hood Canal Coordinating Council (HCCC): Project sponsor and coordinator, technical support and technical report

Washington State Department of Ecology (Ecology): Project funder, training assistance

Adopt a Beach (AAB): Volunteer recruitment and coordination, public education

**REPORT FORMAT****•Work Element****•Task**

•Task description and evaluation (Note: APPENDIX 1 is the results of the participants survey)

**•SUMMARY****•RECOMMENDATIONS**

## WORK ELEMENT #1

**Recruit citizens and train them to visually assess wetland types and functions.**

**TASK #1: Development of a field methodology in cooperation with the Field Biologist hired by the Hood Canal Coordinating Council.**

Esther Howard (HCCC, Field Biologist) and Ken Pritchard (AAB, Volunteer Coordinator) reviewed various field formats in use in Puget Sound Counties and based on Lewis M. Cowardin et al., CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES, Office of Biological Services, Fish and Wildlife Service, 1979. The final format was an adaptation of the Pierce County field forms. The Department of Ecology Wetlands Section (Ecology) approved the HCCC format. The technicality of the form precluded its independent use by volunteers not professionally trained (see APPENDIX 2).

**TASK # 2: Recruit five to ten citizens in each of the following areas: Shine Creek, Miller Creek and Tahuya Creek.**

### 1) Outreach

People learned about the project in the following ways:

Solicitation in articles and announcements: Ecology's *Coastal Currents*, Puget Sound Water Quality Authority's *Sound Waves*, Kitsap Audubon's *Kingfisher* and the HCCC newsletter announced the project to their readers. Press releases were sent to the *Bremerton Sun*, *Kitsap County Herald* and *Port Townsend Peninsula Leader*. An article appeared in the *Bremerton Sun* and may have appeared in the other newspapers.

Meetings: People learned about the program at such meetings as the HCCC Lecture Series (organized by AAB) and at Audubon meetings. Lois Sherwood, Program Director of the HCCC, announced the programs at several meetings.

Mailings and word-of-mouth: Lois Sherwood also provided the names of potential volunteers from various HCCC mailing lists. Local agency staff also helped spread the word about the project.

Most respondents to the evaluation indicated that they had heard about the project through word-of-mouth; next were those who learned about it through presentations. Some respondents indicated that, judging from their friends and neighbors, outreach had been insufficient. The effectiveness of outreach is often a hit-and-miss proposition. One of the best ways to recruit volunteers is through appeals to groups and individuals likely to support a project, thus the announcement at lectures and articles in newsletters. Please refer to the section on outreach in *Recommendations* at the end of this report.

## 2) Recruitment

Prospective volunteers were sent an information packet . Forty six people expressed initial interest in the project.

Forms were mailed to prospective volunteers to record their interest, background, schedule preference and watershed selection (see APPENDIX 3). Fifteen volunteers returned the forms. Some volunteers who returned the form did not actually participate in field work while others who did never sent back the form.

The number of volunteers assigned to the three drainages were as follows:

- SHINE: 4
- MILLER: 5
- TAHUYA: 9 (Actual participation was somewhat lower)

Note that some volunteers chose to work on two drainages.

## 3) Volunteer information

a) Reason for volunteering: The project evaluation asked respondents to state their purpose for participating. The three most common responses were: learning about wetlands, personal commitment to protect the environment and usefulness to job or to other volunteer work.

b) Qualifications and experience: At least four volunteers were trained biologists or shoreline planners and were professionally equiped to conduct the surveys. Most of the other volunteers had considerable plant identification or birding background, being local leaders of such groups as the Washington Native Plant Society, the Audubon Society or the Master Gardeners. In this respect their knowledge of local flora and fauna was tremendously useful to the project. Other volunteers indicated that the project provided the field experience to complement their job (e.g. a section head at EPA Region X). Two volunteers with considerable wetlands experience could easily have served as assistant group leaders.

**TASK # 3: Train citizens and conduct field trips to the types of marshes they will help inventory and monitor**

### 1) Workshop

Ecology conducted a two-day wetlands inventory Workshop. The workshop was conducted on February at the Tri-Area Community Center in Chimacum and a field trip was held (in the snow) at an intertidal wetland in Discovery Bay. Though the workshop was more geared to county planning staff, volunteers were also invited and seventeen did attend.

While most of the volunteers felt that the content was excellent, many wished that the workshop should have been more directly applicable to the field work. February was also a wrong month for learning about wetlands. However, many respondents praised the workshop leaders for their knowledge and enthusiasm.

## 2) Field Orientation

New volunteers, those who hadn't attended the workshop and those who desired a field refresher, attended one of three field orientations designed to introduce them to the watershed of their choice. Esther Howard led these trips. The schedule was as follows

- Shine Creek (the intertidal wetlands): 4/1/89 (2 volunteers)
- Miller Creek (the wetland on 288th St.): 4/1/89 (4 volunteers)
- Tahuya Creek (Tahuya Lake area): 4/2/89 (7 volunteers)

Some volunteers felt that the field orientation somewhat duplicated what they had learned in the workshop while others wished that they should have served more as a practicum.

## 3) Supplemental orientation

Two indoor sessions were held for volunteers who were unable to attend the first training. Their purpose was to explain how the field work would be conducted. Esther Howard led these sessions. Their schedule was as follows:

- Tri-Area Community Center, Chimacum: 4/4/89
- Timberline Library, Belfair: 4/9/89

The Belfair session was very well attended since half the audience consisted of members of the Hood Canal Land Trust. Again, some volunteers felt that some of the same ground was being revisited (which was precisely the function of these sessions). An unplanned benefit of these sessions was the opportunity to meet among volunteers and fruitful discussions on wetlands preservation in the Hood Canal drainages.

## 4) Field training

While the workshops and field and indoor orientations were useful in describing to the volunteers the purpose of the project and the type of work they would be doing, the bulk of the learning took place in the field while the volunteers were assisting Esther Howard.

## WORK ELEMENT #2

**Coordinate citizens who are conducting a wetland baseline survey.**

**TASK # 1: Develop an assignment schedule based on photo reconnaissance and map surveys**

Esther Howard researched the photo and map documentation for all three drainages and interviewed wetland specialists for additional data. The Shine and Miller drainages are small and well defined and did not require an extensive paper inventory. Only the Mason County portion of Tahuya Creek was explored (most of it being intertidal wetlands). Though project plans called for volunteer assistance during the inventory phase, few volunteers participated. This was due to the lack of available training and supervision as

well as to the lack of volunteers able to participate during weekday working hours.

The field schedule included mostly weekend trips when most of the volunteers would be available. Field work was conducted in all three drainages at the same time to eliminate the potential for several weeks of waiting time between the training of volunteers and their assignments.

**TASK # 2: Coordinate citizen baseline survey and help evaluate findings with citizens and Field Biologist**

Volunteers were first notified of the date of field trips via letters and post cards (usually with a return coupon (see APPENDIX 3). This was followed by phone calls, either to confirm pre-registered volunteers or to solicit greater participation.

A field day usually started at 8 am at a rendez vous spot and ended around 2 or 3 pm. Volunteers assisted in all phases of the inventory, from identifying plants and birds to estimating cover and height or verifying wetland boundaries. All the field trips were supervised by Esther Howard and the volunteers never worked on their own.

The number of scheduled trips were as follows:

- Shine: 5 trips
- Miller: 10 trips
- Tahuya: 6 trips

The actual number of trips was lower on account of cancellations.

1) Evaluation of the field trips

The field trips were the highlight of the volunteer experience with most of the respondents indicating that they learned a lot about wetlands. On the down side, volunteers usually felt that their contribution in the field was somewhat limited. The coordination of the volunteers somewhat suffered in that the project did not operate from a central place. Recruitment was conducted from Seattle (Ken Pritchard, AAB) and Port Townsend (Lois Sherwood), field assignments were conducted from Seattle (Ken Pritchard, AAB) and later from Hoodspport (Donna Simmons, AAB) and the Field Biologist (Esther Howard) operated from her house in Olympia. This resulted in an insufficient number of staff meetings and occasional mixed signals such as unannounced cancelled field trips. One of the most precarious aspect of the project was the absence of back-up personnel in the field.



### WORK ELEMENT # 3

#### Develop a public education component to the wetlands project

**TASK #1: Organize and conduct wetland tours for the general public and local decision makers.**

Three wetland tours were organized. Elected officials, county and tribal planners, private land managers, real estate brokers and other representatives of the business community and the press were invited. However, the general public was not invited. Project representatives explained the project and volunteers served as field guides. Here is a short description of each trip:

- Tahuya (6/9/89): This trip was organized in conjunction with an HCCC meeting and was attended by members of the Council, Council staff and volunteers.

- Miller (6/27/89): This trip was attended by 15 participants including a Kitsap County Commissioner, a representative from Pope and Talbot Resources, tribal representatives, Kitsap County planners and reporters from the *Bremerton Sun*. (see APPENDIX 4)

- Shine(6/29/89): This trip was attended by 7 participants including a Jefferson County Commissioner, a representative from the Jefferson County Board of Realtors, staff members of the HCCC and volunteers.

**Task # 2: Publicize the project in an article for the Hood Canal Coordinating Council and other newsletters**

Donna Simmons, on contract with AAB, wrote an article which was also to serve as a press release (see APPENDIX 5). It was published in the HCCC newsletter and given to Ecology's *Coastal Currents* as well as to the Puget Sound Water Quality Authority's newsletter. It was also sent to area newspapers and served as background information for the *Bremerton Sun* story (see above).

#### Other educational items

##### 1) Slide show presentation

A slide show presentation is currently being assembled in response to the volunteers' desire to discuss this project at community group and club functions. Five volunteers agreed to serve in this capacity.

##### 2) Field Manual

Since no narrative to the field form exists, a field manual is currently being edited to assist volunteers in completing the form. It is to be understood that this field manual is not a substitute for formal training in wetlands inventory. The field information gathered by unsupervised volunteers can only serve as preliminary information which needs professional verification in order to qualify for the formal record.

## SUMMARY

How well did the project meet its objectives?

1) Recruit citizens and train them to visually assess wetland types and functions.

The goal of recruiting between 5 and 10 volunteers per drainage was by-and-large met and this was sufficient for the task at hand. Larger drainages and projects lasting more than six months would require a much larger pool of volunteers. However, the optimal number of people characterizing a wetland should not exceed three or four. Three or four groups of volunteers working simultaneously would require as many paid or pro-bono professionals to supervise them.

While the volunteers received an adequate amount of training to work under supervision, it is doubtful that those without anterior or supplemental training could be self-sufficient, even if the result of their field work was informal. The project was simply too short. However, there now exists a pool of volunteers in Jefferson, Kitsap and Mason County who have acquired a basic wetlands literacy. All the respondents to the evaluation who have not moved out of the area indicated that they would continue volunteering if asked. With another six month practicum their knowledge of wetlands characterization should make them self-sufficient at least for informal wetlands inventory and especially for testifying knowledgeably at hearings.

2) To coordinate citizens who will be conducting a wetland baseline survey of undocumented or poorly documented wetlands.

Shine and Miller Creek wetlands were completely inventoried and the portion of Tahuya Creek to be inventoried was also completed. It is to be seen whether the work of the volunteers did not duplicate previous efforts such as those of the Natural Heritage Program for lower Shine Creek and lower Tahuya Creek. The upper drainage of Shine Creek being on the Pope and Talbot tree farm, the usefulness of an HCCC wetlands inventory is questionable. However, Miller Creek is an excellent example of a drainage threatened by development and an inventory of its wetlands is timely.

The short duration of the project barely puts a dent in the wetlands inventory needs of Hood Canal drainages. In this sense the project succeeds best as a demonstration of the feasibility of a volunteer aided inventory.

3) To educate the public and local decision makers on the state of wetlands in the target areas.

To date, project exposure is limited to the readership of agency newsletters and to the readers of the *Bremerton Sun* article of 6/28/89. The public also learned about the project before it became operational at a number of lectures and presentations. Once the slide show about the project is completed, a number of volunteers (who have agreed to do so) can make short presentations at their clubs or community groups.

Hopefully, if the project is resurrected in one form or another, there will be new opportunities to educate the general public.

Local decision makers, and also tribal representatives and local business leaders became acquainted with the project. Thirty percent of those invited to the Miller Creek field trip did attend. Though fewer were invited, the same percentage did attend the Shine Creek field trip.

## RATING THE PROJECT

Respondents to the evaluation gave the project the following grades:

	GRADE	RESPONSES
Training and orientation:	B	12
Field trips:	B+	9
Volunteer coordination:	B+	8
Field biologist:	B+	8
Learning experience:	B-	10
Usefulness of volunteers:	B-	8

## CONCLUSION

It is remarkable that a project that had so little planning and implementation time and had so few resources and models to draw from nonetheless received such high marks from the volunteers and staff associated with it. It is a testimony that the public concern for wetlands protection and the demand for constructive outlets like this project.

The project's success as an information gathering tool was more limited. Its success there lies in its demonstrative quality. The answer is that volunteers, when given enough time and when properly trained and supervised, can effectively assist a local jurisdiction in its inventory of wetlands. There are some important ingredients to include in such a project; these are treated in *Recommendations* below.

## RECOMMENDATIONS

Field Methodology: Demystify the methodology. Wetlands terminology can easily be translated into English when being used as a field tool for volunteers and then back into jargon for the official record.

### Recruiting Volunteers:

- High caliber volunteers vs. neophytes: Volunteers with proper professional background or with a commensurate avocation are easily attracted to this type of project. Encourage their participation. But do not overlook less qualified, but equally interested volunteers, especially those residing near wetlands.
- Groom those volunteers with the proper credentials to serve as assistant field leaders and put them in charge of two or three volunteers rather than have them work along the field leader.

- Publicize the project in the respective watersheds and maximize recruiting efforts there.

Training: Two or three sessions do not constitute adequate training. When designing the training, ensure the following:

- The content of the classroom training must be directly applicable to the field work.
- Provide for adequate field practicum time followed by classroom debriefings in order to ease volunteers into the field work. Provide plenty of support material.
- Field practicums are best held in spring and summer.

Field work:

- Include riparian corridors to the survey since they affect the health of wetlands.
- Provide an adequate support system and maintain a close relationship between the volunteer organizers and field staff on one hand, and the end users of the information on the other.
- The project should last a minimum of one year and preferably two before there can be an adequate return on investment.
- Ensure that the volunteer project systematically covers a given geographic area. This will help avoid coverage gaps or taking a hit-and-miss approach to wetlands reconnaissance. Focus on areas most at risk: this is the best way to develop knowledgeable advocacy for their protection.

Public education:

- Involve decision makers and planners in the field and throughout the duration of the project, not just at the end like a valedictory. The interaction between decision makers and citizens in the field is high productive. Furthermore brief these decision makers about the purpose of the project early in the game.
- Use your volunteers to educate the general public and provide them with resources to back them up.
- Arrange for volunteers to educate decision makers; for instance, encourage them to testify at hearings.

## APPENDIX #1 VOLUNTEER EVALUATION

### HOW DID YOU LEARN ABOUT THIS PROJECT?

Word-of-mouth: 6, presentations: 4, flyer: 2, newspaper: 1

### WHAT MADE YOU DECIDE TO BE A WETLANDS VOLUNTEER?

(Multiple answers)

Personal commitment: 6, personal interest in wetlands: 5, job related or community involvement related: 3, taking the training: 1

### ECOLOGY WETLANDS CHARACTERIZATION WORKSHOP

Best aspects:

Format: 4, content: 3, style of presenters: 3, materials: 1, field demonstration: 1

Worst aspects:

Wrong time of year: 2, too much content/wrong content: 2, location: 1, lack of materials, presenters' style was too loose: 1, should have been done on a weekend: 1

### ORIENTATION FIELD TRIPS TO THE WATERSHEDS

Best aspects:

Style of presenters: 2, interaction with other volunteers: 2, getting out: 1, hands on aspect: 1

Worst aspects:

Not enough practical information: 3, lack of organization: 1

### SUPPLEMENTAL ORIENTATION SESSION

Best aspects:

Meeting the other volunteers: 2, participants' interest in the project: 1, high attendance: 1, practical learning: 1, received good resource information: 1

Worst aspects:

Redundancy w/ Ecology workshop: 3, day and time: 1, pressure to sign up for field work: 1,

### FIELD TRIPS

Participated: 8

Did not participate: 4

Reasons for not participating:

Timing: 2, lack of advance notification: 1, overcommitment: 1

Best aspects of the field trips:

Learned a lot: 4, teaching/learning interaction with all involved: 4, learning about the project itself: 1, leadership: 1, putting learning into practice: 1,

Worst aspects:

Cancelled trip: 3, not enough practice with map interpretation: 1, , could have covered more territory: 1, weather: 1

## RATING THE PROJECT

	GRADE	RESPONSES
Training and orientation:	B	12
Field trips:	B+	9
Volunteer coordination:	B+	8
Field biologist:	B+	8
Learning experience:	B-	10
Usefulness of volunteers:	B-	8

## RECOMMENDATIONS FOR THE FUTURE

More field biologists (staff and volunteer): 3, more lead time before actual participation: 2, better outreach: 2, more field training: 2, more map training: 1, more information on wetlands chemistry: 1, shorter field days: 1, more sites to characterize: 1, mix planners and policy makers with volunteers on field trips: 1, recruit less environmentally minded volunteers: 1, Distinguish HCCC/AAB projects so that volunteers clearly know which ones they are involved with: 1, train volunteers as informed watchdogs, not as adjunct technicians: 1, prioritize inventories of Clear Creek, Chico Creek and Blackjack Creek in future projects

## CONTINUED INVOLVEMENT WITH THE PROJECT

Plan to continue: 9

Role: Do more field work: 3, advocacy: 1, make it part of job: 1, provide technical assistance: 1, provide more training assistance: 1

Do not plan to continue: 3

Reasons: moved: 3

## OTHER COMMENTS AND SUGGESTIONS

It was a great idea.

Train some of the volunteers to be proficient in the entire process, from paper inventory to field inventory and field report.

It was a good exchange among the participants.

It was a good learning experience.

We all deserve a pat on the back.

This project should continue, it was a great experience.

The HCCC Lecture Series and the wetlands project complemented each other well.

The public information trip at Miller Creek was a great way to sum-up the project.

Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. M117272E-1 1/4 1/4 1/2 S T R  
 1/4 Township No. SW 1/4 of T27, R2E SE SE E 17 27 2E  
 Wetland Name \_\_\_\_\_  
 Size (Acres) \_\_\_\_\_  
 2. Team Leader Esther Howard  
 Team Members Ruth Schaffer  
 Date 10 June 1989 Time Begin 1315 Time End 1430  
 Access Points \_\_\_\_\_  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather Sunny + warm

## 3. FWS Wetland Type:

## A. System PALUSTRINE

1. Class \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
4. Class \_\_\_\_\_  
 D-1 Subcl./Dom. \_\_\_\_\_  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

## B. System RIVERINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

## C. System LACUSTRINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

## D. System ESTUARINE

1. Subsys./Cl. intertidal/unconsolidated  
shore  
 A-1 Subcl./Dom. mud  
 A-2 Subcl./Dom. coarse-gravel  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes E2V53 Cl% 95
2. Subsys./Cl. intertidal/emergent  
low Salicornia virginica  
 B-1 Subcl./Cl. \_\_\_\_\_  
 B-2 Subcl./Cl. \_\_\_\_\_  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes E2EM1 Cl% 5
3. Subsys./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

Wetland ID M117272E-1

Date 10 June 1989

Appendix 2

Additional Plant Species:

Indicator Status:

*Taumea carneria*

OBL

*Enteromorpha* sp.

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Soils:

Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1.

2.

3.

*No samples were necessary, as the soils were intertidal.*



Wetland ID M117272E-1 Date 10 June 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water		✓	
2. Running water		✓	
3. Saturated soils	✓		
4. Tidal influence	✓		

Type Of Outlet:

1. None
2. Overland: constricted unconstricted
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

1. Flat wetland with impoundment capability (describe)
2. Flat wetland without impoundment capability (describe) *Drains into Port (Traverse Bay)*
3. Sloped wetland without impoundment capability (describe)

Wetland ID MI17272E-1 Date 10 June 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags		
2. Perches		
3. Logs		
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other <i>over hanging vegetation</i>		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

*deer tracks*

Wetland ID M117272E-1

Date 10 June 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other

Buffers:


Land use within 200 feet

N upland forest  
S open water  
E upland forest, residential  
W upland forest, residential


Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:


1.

  
a. site/upland  
b. upland/site  
%. 100

2.


  
a. site/upland  
b. upland/site  
%.           

3.

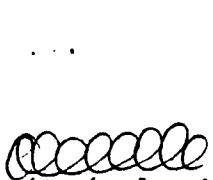
  
a. site/upland  
b. upland/site  
%.           

Similar:


1.

  
a. site/upland  
%.           

2.

  
a. site/upland  
%.           

3.

  
a. site/upland  
%.

SUMMARY

1. Wetland vegetation dominant?
2. Wetland hydrology present?
3. Hydric soils present?
4. Is the site a wetland?

YESNO

✓  
✓  
✓  
✓

5. Summary paragraph (by ETH): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc.

This is a small estuary which is valuable fisheries habitat. It is primarily sloped mud flats with overhanging upland vegetation. It has no function as a biofilter or stormwater detainer, but appears very productive & provides habitat for marine animals and waterfowl.

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale= 1"=1000'

North ↑



# Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No.	<u>M/21272E-2</u>	1/4	1/4	1/2	S	T	R
1/4 Township No.	<u>SW 1/4 OF T27N R2E</u>	<u>NW</u>	<u>NW</u>	<u>W</u>	<u>21</u>	<u>27</u>	<u>2E</u>
Wetland Name	<u>(includes Miller Lake)</u>						
Size (Acres)	_____						

2. Team Leader Esther Howard

Team Members Shane Wilson, Tom Wilson

Date 13 April 1989 Time Begin 0800 Time End 1145

Access Points 208th St NE

Landowner \_\_\_\_\_ Phone \_\_\_\_\_

Parcel No. \_\_\_\_\_ Weather cloudy & cool

3. FWS Wetland Type:

A. System PALUSTRINE		C. System LACUSTRINE	
1. Class <u>scrub-shrub</u>		1. Subst./Cl.	
A-1 Subcl./Dom. <u>BL decid/Spina douglasii</u>		A-1 Subcl./Dom.	
A-2 Subcl./Dom.		A-2 Subcl./Dom.	
A-3 Subcl./Dom.		A-3 Subcl./Dom.	
Special Modifier		Special Modifier	
Codes <u>PSS1</u> Cl% <u>20</u>		Codes _____ Cl% _____	
2. Class <u>forested</u>		2. Class	
B-1 Subcl./Dom. <u>BL decid/Alnus incana</u>		B-1 Subcl./Dom.	
B-2 Subcl./Dom.		B-2 Subcl./Dom.	
B-3 Subcl./Dom.		B-3 Subcl./Dom.	
Special Modifier		Special Modifier	
Codes <u>PFO1</u> Cl% <u>50</u>		Codes _____ Cl% _____	
3. Class <u>emergent</u>		3. Class	
C-1 Subcl./Dom. <u>grass/Phragmites australis</u>		C-1 Subcl./Dom.	
C-2 Subcl./Dom.		C-2 Subcl./Dom.	
C-3 Subcl./Dom.		C-3 Subcl./Dom.	
Special Modifier		Special Modifier	
Codes <u>PERM</u> Cl% <u>10</u>		Codes _____ Cl% _____	
4. Class <u>open water</u>			
D-1 Subcl./Dom.			
D-2 Subcl./Dom.			
D-3 Subcl./Dom.			
Special Modifier			
Codes <u>POW</u> Cl% <u>20</u>			

B. System RIVERINE		D. System ESTUARINE	
1. Subst./Cl.		1. Subst./Cl.	
A-1 Subcl./Dom.		A-1 Subcl./Dom.	
A-2 Subcl./Dom.		A-2 Subcl./Dom.	
A-3 Subcl./Dom.		A-3 Subcl./Dom.	
Special Modifier		Special Modifier	
Codes _____ Cl% _____		Codes _____ Cl% _____	
2. Subst./Cl.		2. Subst./Cl.	
B-1 Subcl./Dom.		B-1 Subcl./Dom.	
B-2 Subcl./Dom.		B-2 Subcl./Dom.	
B-3 Subcl./Dom.		B-3 Subcl./Dom.	
Special Modifier		Special Modifier	
Codes _____ Cl% _____		Codes _____ Cl% _____	
		3. Subst./Cl.	
		C-1 Subcl./Dom.	
		C-2 Subcl./Dom.	
		C-3 Subcl./Dom.	
		Special Modifier	
		Codes _____ Cl% _____	

Wetland ID MI 21272E-2

Date 15 April 1989

Additional Plant Species:

Indicator Status:

• <i>Thuja plicata</i>	FAC
• <i>Acer macrophyllum</i>	FACU
• <i>Tsuga heterophylla</i>	FACU
• <i>Rubus spectabilis</i>	FAC
• <i>Salix spp</i>	FACW
• <i>Alnus rubra</i>	FAC
• <i>Atyris filix-femina</i>	FAC
• <i>Phalaris arundinacea</i>	FACW
• <i>Lysichiton americanum</i>	OBL
• <i>Montia cordifolia</i>	—
• <i>Urtica dioica</i>	FACU
• <i>Lemna minor</i>	OBL
• <i>Equisetum sp.</i>	FACW

Soils:

• Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1.

2.

3.

No need for samples; the soils were saturated.

Wetland ID M121272E-2

Date 15 April 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		
2. Running water		✓	
3. Saturated soils	✓		
4. Tidal influence		✓	

Type Of Outlet:

1. None
2. Overland:    constricted    unconfined
3. Open channel: (artificial)  
    channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
- ④ Pipe: type *culvert*  
    diameter \_\_\_\_\_ not measured ✓
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river
6. Storm water drainage pipe
7. Other
- ⑧ Unknown

Impoundment Capacity:

- ① Flat wetland with impoundment capability (describe) *in a topographic depression*
2. Flat wetland without impoundment capability (describe)
3. Sloped wetland without impoundment capability (describe)

Wetland ID M121272E-2

Date 15 April 1989

Habitat Features:

- |                  | <u>Percent Cover</u> | <u>Number</u> |
|------------------|----------------------|---------------|
| 1. Snags         |                      |               |
| 2. Perches       |                      |               |
| 3. Logs          |                      |               |
| 4. Rock Outcrops |                      |               |
| 5. Cliffs        |                      |               |
| 6. Island        |                      |               |
| 7. Other         |                      |               |
| 8. None          |                      |               |
| 9. Unknown       |                      |               |

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

songbirds, great blue heron



Wetland ID M121272E-2

Date 15 Apr/1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, *(from road)*  
ditching, draining, dredging
2. Pollution: *from pasture & road* runoff, garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other

Buffers:


Land use within 200 feet

N *road*  
S *upland forest*  
E *upland forest*  
W *cleared upland, residential, upland forest*


Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:


1.

  
a. site/upland  
b. upland/site  
%.           

2.


  
a. site/upland  
b. upland/site  
%. 20

3.

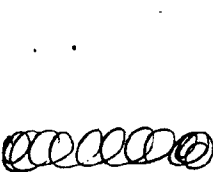
  
a. site/upland  
b. upland/site  
%. 5

Similar:

1.

  
a. site/upland  
%.           

2.

  
a. site/upland  
%.           

3.

  
a. site/upland  
%. 75

SUMMARYYESNO

1. Wetland vegetation dominant?
2. Wetland hydrology present?
3. Hydric soils present?
4. Is the site a wetland?

✓  
✓  
✓  
✓

5. Summary paragraph (by EH): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc.

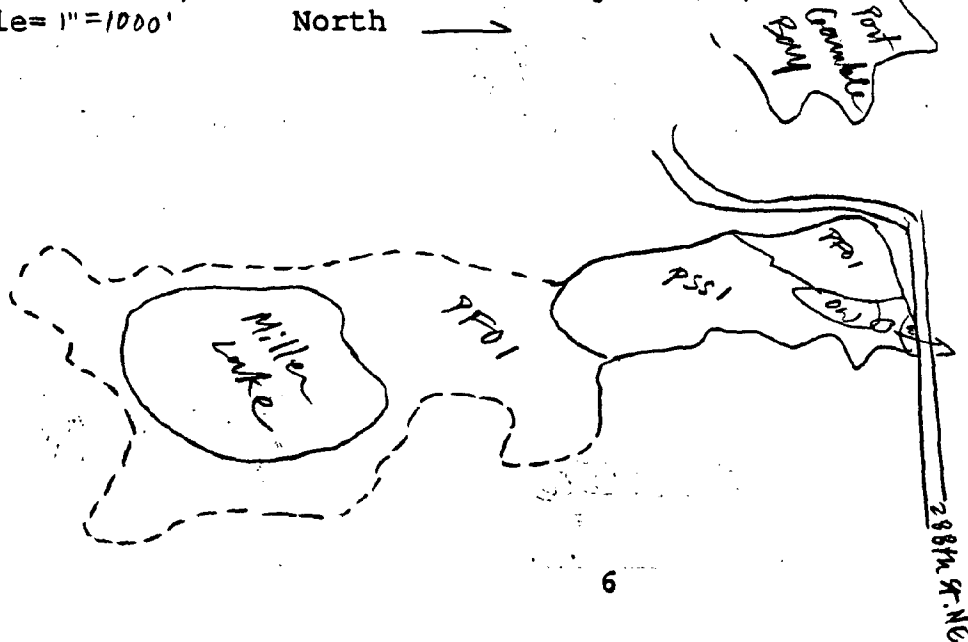
is is a palustrine wetland which includes Miller Lake. We were only able to access the northern portion. It is good habitat, especially for great blue herons. Since its outlet is a culvert and it is topographically lined, it would probably detain stormwater. The predominance of forested vegetation make this a moderate biofilter. It is impacted by roads (impoundment, runoff, noise), and runoff from pasture. It appears to have an old beaver dam in the northern end.

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale = 1" = 1000'

North →



# Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. M121272E-3      1/4   1/4   1/2   S   T   R  
 1/4 Township No. SW 1/4 of T27N, R2E      all   SE   E   21   27   2E  
 Wetland Name SW+SE   N   E   21   27   2E  
 Size (Acres) \_\_\_\_\_

2. Team Leader Esther Howard  
 Team Members Donna Alber, Ruth Schaffer, Catherine Hrucek  
 Date 30 April, 10 June   Time Begin N/A   Time End N/A  
 Access Points Rt. 104, dirt road off of Hamanville Rd  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather sunny & warm

3. FWS Wetland Type:

A. System PALUSTRINE

1. Class forested  
 A-1 Subcl./Dom. BL decid / Alnus rubra  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PFO1   Cl% 75

2. Class scrub-shrub  
 B-1 Subcl./Dom. BL decid / Salix spp.  
 B-2 Subcl./Dom. BL decid / Spiraea douglasii  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PSS1   Cl% 10

3. Class forested / scrub-shrub  
 C-1 Subcl./Dom. BL decid / Alnus rubra  
 C-2 Subcl./Dom. BL decid / Rubus spectabilis  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PFO 1   Cl% 10

4. Class emergent  
 D-1 Subcl./Dom. perenn / Carex & the same  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PEM1   Cl% 5

C. System LACUSTRINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

B. System RIVERINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

D. System ESTUARINE

Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Cl. \_\_\_\_\_  
 B-2 Subcl./Cl. \_\_\_\_\_  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

3. Subsys./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

## Additional Plant Species:

## Indicator Status:

• <i>Sambucus racemosa</i>	FACU
• <i>Atyrivum filix-femina</i>	FAC
<i>Isya heterophylla</i>	FACU
<i>Thuja plicata</i>	FAC
• <i>Lysichiton americanum</i>	OBL
<i>Tolmiea menziesii</i>	FAC
<i>Rhamnus purshiana</i>	FAC
• <i>Picea sitchensis</i>	FAC
<i>Carex sp.</i>	OBL
<i>Urtica dioica</i>	FAC+
<i>Montia cordifolia</i>	—
• <i>Tiarella trifoliata</i>	FAC

Soils:

• Soil type according to SCS: 37 Huma fine sandy loam

Hydric? ☒ YES ☐ NO

Soil samples (Munsell Classification) 1. 10YR 2/1

2.

3.

• <i>Rumex crispus</i>	FACW
<i>Ranunculus repens</i>	FACW
• <i>Ribes lacustre</i>	FAC+
• <i>Maianthemum diabolium</i>	FAC+
<i>Typha latifolia</i>	OBL

Wetland ID M121272E-3

Date 30 April, 10 June

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		
2. Running water		✓	
3. Saturated soils	✓		
4. Tidal influence		✓	

Type Of Outlet:

1. None
2. Overland:    constricted    unconfined
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
5. Other
- ⑥ Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river
- ⑥ Storm water drainage pipe *culvert*
7. Other
8. Unknown

Impoundment Capacity:

- ① Flat wetland with impoundment capability (describe) *in a topographic depression*
2. Flat wetland without impoundment capability (describe)
3. Sloped wetland without impoundment capability (describe)

Wetland ID M121272E-3

Date 30 April, 10 June

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags		lots
2. Perches		
3. Logs		lots
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

songbirds

Wetland ID M/212725-3

Date 30 April, 10 June

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other

Buffers:


Land use within 200 feet

N upland forest  
S road, upland forest  
E upland forest  
W upland forest


Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:


1.

  
a. site/upland  
b. upland/site  
%. 10

2.

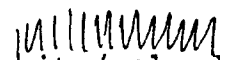
  
a. site/upland  
b. upland/site  
%. 10

3.

  
a. site/upland  
b. upland/site  
%. \_\_\_\_\_

Similar:


1.

  
a. site/upland  
%. \_\_\_\_\_

2.

  
a. site/upland  
%. \_\_\_\_\_

3.

  
a. site/upland  
%. 80

SUMMARY

- |   | <u>YES</u> | <u>NO</u> |
|---|------------|-----------|
| 1. Wetland vegetation dominant?   | ✓          |           |
| 2. Wetland hydrology present?   | ✓          |           |
| 3. Hydric soils present?  | ✓          |           |
| 4. Is the site a wetland?   | ✓          |           |
| 5. Summary paragraph (by <u>EH</u> ): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc. |            |           |

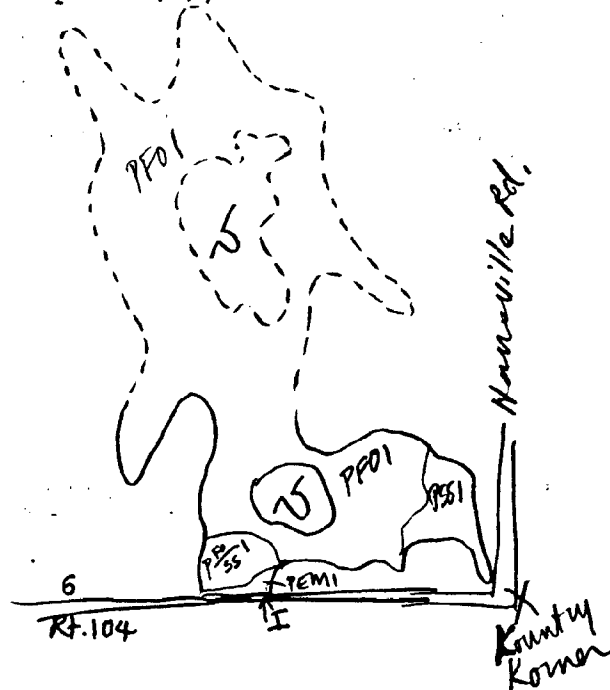
This is a primarily forested wetland dominated by Slimes rubra. It is good habitat for songbirds and probably large animals such as deer. Its detention capacity appears to be minimal, and it is probably moderate biofilter. Buffers are for the most part good (upland forest).

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale= 1"=1000'

North ↑





# Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. M126272E-4 1/4 1/4 1/2 S T R  
 1/4 Township No. SW 1/4 OF T. 27 N., R. 2 E NE NE E 28 27 2E  
 Wetland Name \_\_\_\_\_  
 Size (Acres) \_\_\_\_\_  
 2. Team Leader Robert Harold  
 Team Members Catherine Horak, Ruth Schaffner  
 Date 20 April 1988 Time Begin 0835 Time End 1105  
 Access Points RT. 104  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather SUNNY / 40-70

## 3. FWS Wetland Type:

### A. System PALUSTRINE

1. Class Succubus-Sp. 6  
 A-1 Subcl./Dom. EL decid / Salix spp.  
 A-2 Subcl./Dom. EL decid / Spiraea douglasii  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PSS1 Cl% 97
2. Class Forest  
 B-1 Subcl./Dom. EL decid / Salix spp.  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PFD1 Cl% 2
3. Class Emergent  
 C-1 Subcl./Dom. Pennis / Phragmites communiflora  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PEM1 Cl% 1
4. Class \_\_\_\_\_  
 D-1 Subcl./Dom. \_\_\_\_\_  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### B. System RIVERINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### C. System LACUSTRINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### D. System ESTUARINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Cl. \_\_\_\_\_  
 B-2 Subcl./Cl. \_\_\_\_\_  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Subsys./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

Wetland ID M128272E-4

Date 29 April 1989

Additional Plant Species:

Indicator Status:

*Picea sitchensis*

FAC

*Rhamnus purshiana*

FAC

*Populus spectabilis*

FAC

*Urtica dioica*

FAC+

*Juncus effusus*

FACW

*Carex obnupta*

OBL

*Polygonum aviculare*

FACW

Soils:

Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1.

2.

3.

We didn't take samples, as the soils were saturated.

Wetland ID M128272E-4 Date 29 April 1984

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		~2"
2. Running water		✓	
3. Saturated soils	✓		
4. Tidal influence		✓	

Type Of Outlet:

1. None
2. Overland: constricted unconstricted
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type culvert under Rt. 104  
diameter ~2' not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

1. Flat wetland with impoundment capability (describe) *in a topographic hic depression, damnable outlet*
2. Flat wetland without impoundment capability (describe)
3. Sloped wetland without impoundment capability (describe)

Wetland ID M128212E-4

Date 29 April 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags		~10
2. Perches		~10
3. Logs		~10
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

Wetland ID M128272E-4

Date 29 April 1984

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage *from road*
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other *road noise, garbage, runoff, fill*




Buffers:

Land use within 200 feet

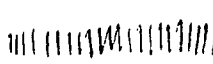


N *road, wetland*  
S *upland forest*  
E *upland forest, cleared upland*  
W *upland forest*

Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:

- |    |   |    |   |    |   |
|----|---|----|---|----|---|
| 1. |  | 2. |  | 3. |  |
| a. | site/upland   | a. | site/upland   | a. | site/upland   |
| b. | upland/site   | b. | upland/site   | b. | upland/site   |
| %. | _____   | %. | <u>80</u>   | %. | <u>20</u>   |

Similar:

- |    |   |    |   |    |   |
|----|---|----|---|----|---|
| 1. |  | 2. |  | 3. |  |
| a. | site/upland   | a. | site/upland   | a. | site/upland   |
| %. | _____   | %. | _____   | %. | _____   |

Wetland ID M120272E-4Date 29 April 1989SUMMARY

- |   | <u>YES</u> | <u>NO</u> |
|---|------------|-----------|
| 1. Wetland vegetation dominant?   | /          |           |
| 2. Wetland hydrology present?   | /          |           |
| 3. Hydric soils present?  | /          |           |
| 4. Is the site a wetland?   | /          |           |
| 5. Summary paragraph (by <u>EH</u> ): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc. |            |           |

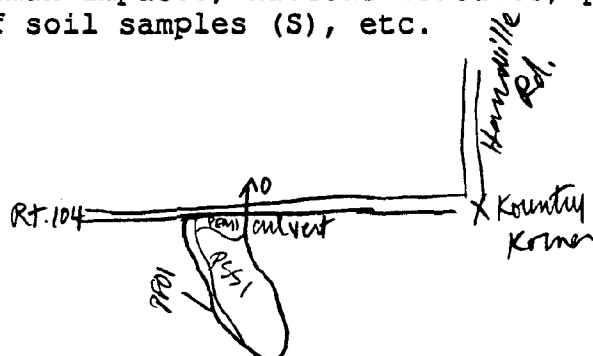
This wetland is dominated by scrub-shrubs Salix and Spirea. It is good habitat for songbirds. Its outlet (a culvert) is dammable and it is topographically defined, so would probably detain a small amount of stormwater. Scrub-shrub vegetation functions as a slow biofilter, but stores impurities over long periods of time.

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale=

North



## Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. SH 33281E-1  
1/4 Township No. SW 1/4 OF T. 28N, R1E  
Wetland Name N/A  
Size (Acres) \_\_\_\_\_  
2. Team Leader Esther Howard  
Team Members John Neil, Lois Sherwood, P.J. Johnson, Kurt Klingman  
Date 12 Apr 1989 Time Begin 0600 Time End 1230  
Access Points S. Point Rd, S. Vine Rd.  
Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
Parcel No. \_\_\_\_\_ Weather partly cloudy, cool  
3. FWS Wetland Type:  
A. System PALUSTRINE  
1. Class Scrub-shrub  
A-1 Subcl./Dom. BL decid/Salix spp.  
A-2 Subcl./Dom. BL decid/Rubus spectabilis  
A-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes PSS1 Cl% 10  
2. Class forested  
B-1 Subcl./Dom. BL decid/Alnus incana  
B-2 Subcl./Dom. \_\_\_\_\_  
B-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier dh  
Codes PFD1 Cl% 15  
3. Class emergent  
C-1 Subcl./Dom. perovis/Veronica stricta  
C-2 Subcl./Dom. \_\_\_\_\_  
C-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier dh  
Codes PETM1 Cl% 10  
4. Class \_\_\_\_\_  
D-1 Subcl./Dom. \_\_\_\_\_  
D-2 Subcl./Dom. \_\_\_\_\_  
D-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes \_\_\_\_\_ Cl% \_\_\_\_\_  
B. System RIVERINE  
1. Subsystem./Cl. \_\_\_\_\_  
A-1 Subcl./Dom. \_\_\_\_\_  
A-2 Subcl./Dom. \_\_\_\_\_  
A-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes \_\_\_\_\_ Cl% \_\_\_\_\_  
2. Subsystem./Cl. \_\_\_\_\_  
B-1 Subcl./Dom. \_\_\_\_\_  
B-2 Subcl./Dom. \_\_\_\_\_  
B-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes \_\_\_\_\_ Cl% \_\_\_\_\_  
C. System LACUSTRINE  
1. Subsystem./Cl. \_\_\_\_\_  
A-1 Subcl./Dom. \_\_\_\_\_  
A-2 Subcl./Dom. \_\_\_\_\_  
A-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes \_\_\_\_\_ Cl% \_\_\_\_\_  
2. Class \_\_\_\_\_  
B-1 Subcl./Dom. \_\_\_\_\_  
B-2 Subcl./Dom. \_\_\_\_\_  
B-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes \_\_\_\_\_ Cl% \_\_\_\_\_  
3. Class \_\_\_\_\_  
C-1 Subcl./Dom. \_\_\_\_\_  
C-2 Subcl./Dom. \_\_\_\_\_  
C-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes \_\_\_\_\_ Cl% \_\_\_\_\_  
D. System ESTUARINE  
1. Subsystem./Cl. intertidal/low  
A-1 Subcl./Dom. perovis/Scirp  
A-2 Subcl./Dom. \_\_\_\_\_  
A-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes E2EM1 Cl% 30  
2. Subsystem./Cl. intertidal/uncov  
B-1 Subcl./Cl. \_\_\_\_\_  
B-2 Subcl./Cl. \_\_\_\_\_  
B-3 Subcl./Cl. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes \_\_\_\_\_ Cl% \_\_\_\_\_  
3. Subsystem./Cl. \_\_\_\_\_  
C-1 Subcl./Dom. \_\_\_\_\_  
C-2 Subcl./Dom. \_\_\_\_\_  
C-3 Subcl./Dom. \_\_\_\_\_  
Special Modifier \_\_\_\_\_  
Codes \_\_\_\_\_ Cl% \_\_\_\_\_

Wetland ID 5H33281E-1

Date 12 April 1989

**Additional Plant Species:**

**~~Indicator Status:~~**

*Potentilla pacificum*  
*Urtica dioica* (FAC)  
*Typha latifolia* (OBL)  
*Juncus* spp. (FACW)  
*Triglochin maritimum* (OBL)  
*Distichlis spicata* (FACW)  
*Plantago maritima* (FACW)  
*Salicornia virginica* (OBL)  
*Sambucus racemosa* (FACW)  
*Lysichiton americanum* (OBL)  
*Ribes* spp. (FAC)  
*Mertensia cordifolia*  
*Athyrium filix-femina* (FAC)

*Rorippa nasturtium-aquaticum* (OBL)  
*Picea sitchensis* (FAC)  
*Rosa* sp.  
*Epicea douglasii* (FACW)  
*Pyrus fusca*

**Soils:**

Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1.

2.

3.

soil samples were not necessary. The soils were saturated



Wetland ID SH 33201E-1

Date 12 April 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		~2-6"
2. Running water	✓		
3. Saturated soils	✓		
4. Tidal influence	✓		surface

Type Of Outlet:

1. None
- ② Overland: constricted *Shine Creek* unconstricted
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
- ⑤ Stream or river *Shine Creek*
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

1. Flat wetland with impoundment capability (describe)
- ② Flat wetland without impoundment capability (describe) *drains into Squamish Harbor*
3. Sloped wetland without impoundment capability (describe)

Wetland ID SH 33281E-1

Date 12 April 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags	~10%	
2. Perches		
3. Logs	~1%	
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

*squirrel, songbirds, great blue heron*

Wetland ID SA 33291E-1

Date 12 April 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage, noise
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other

Buffers:

Land use within 200 feet

N road, residential  
S Squamish Harbor  
E residential, upland forest  
W road, upland forest


Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:


1.

  
a. site/upland 30%  
b. upland/site 10%  
%.                     

2.

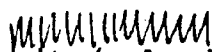
  
a. site/upland  
b. upland/site  
%.                     

3.

  
a. site/upland  
b. upland/site  
%.                     

Similar:

1.

  
a. site/upland  
%. 40

2.

  
a. site/upland  
%.                     

3.

  
a. site/upland  
%. 20

SUMMARY

1. Wetland vegetation dominant?
2. Wetland hydrology present?
3. Hydric soils present?
4. Is the site a wetland?

YESNO

✓  
✓  
✓  
✓

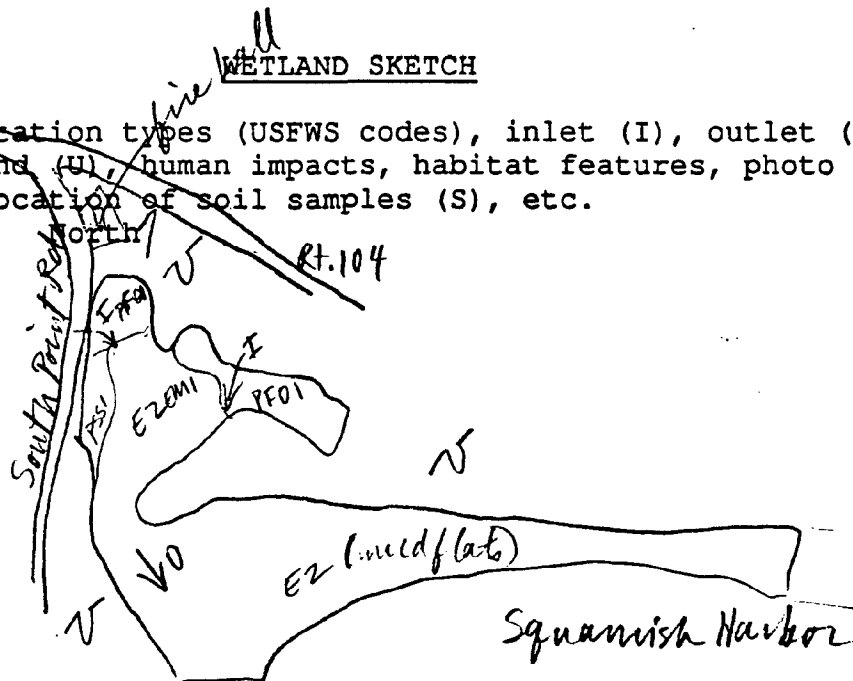
5. Summary paragraph (by ETH): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc.

This is an extensive and palustrine wetland at the mouth of Little Rock. It has a diversity of plant species and vegetation types. The structural diversity and access to salt water make it good habitat for wildlife, although it is accessible to humans. In terms of significance, the wetland appears to trap sediment that would otherwise enter Squamish Harbor. It has little or no retention capacity. Areas of the wetland have been filled, drained, diked, and cultivated. It is subject to noise and runoff from roads.

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale = 1" = 1000'



# Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No.	<u>SH32281E-2</u>	1/4	1/4	1/2	S	T	R
1/4 Township No.	<u>SW 1/4 OF T.28N., R.1E</u>	<u>SE</u>	<u>SE</u>	<u>E</u>	<u>32</u>	<u>28</u>	<u>1E</u>
Wetland Name		<u>NE</u>	<u>NE</u>	<u>E</u>	<u>5</u>	<u>27</u>	<u>1E</u>
Size (Acres)							

2. Team Leader Esther Howard  
 Team Members Craig Weston, Mike McClure  
 Date 21 April, 13 May 1989 Time Begin N/A Time End N/A  
 Access Points Rt. 104, South Point Rd.  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather SUNNY

3. FWS Wetland Type:

<p>A. System PALUSTRINE</p> <p>1. Class <u>forested</u>          A-1 Subcl./Dom. <u>BL Decid/Alnus rubra</u>          A-2 Subcl./Dom. _____          A-3 Subcl./Dom. _____          Special Modifier _____          Codes <u>PFO1</u> Cl% <u>10</u></p> <p>2. Class <u>forested/scrub-shrub</u>          B-1 Subcl./Dom. <u>BL Decid/Alnus rubra</u>          B-2 Subcl./Dom. <u>BL Decid/Spirea douglasii</u>          B-3 Subcl./Dom. _____          Special Modifier _____          Codes <u>PSS1</u> Cl% <u>5</u></p> <p>3. Class <u>emergent</u>          C-1 Subcl./Dom. <u>perovis/Dennis the same as A</u>          C-2 Subcl./Dom. _____          C-3 Subcl./Dom. _____          Special Modifier _____          Codes <u>PEN11</u> Cl% <u>10</u></p> <p>4. Class <u>scrub-shrub</u>          D-1 Subcl./Dom. <u>BL Decid/Spirea douglasii</u>          D-2 Subcl./Dom. _____          D-3 Subcl./Dom. _____          Special Modifier _____          Codes <u>PSS1</u> Cl% <u>15</u></p>	<p>C. System LACUSTRINE</p> <p>1. Subsys./Cl. _____          A-1 Subcl./Dom. _____          A-2 Subcl./Dom. _____          A-3 Subcl./Dom. _____          Special Modifier _____          Codes _____ Cl% _____</p> <p>2. Class _____          B-1 Subcl./Dom. _____          B-2 Subcl./Dom. _____          B-3 Subcl./Dom. _____          Special Modifier _____          Codes _____ Cl% _____</p> <p>3. Class _____          C-1 Subcl./Dom. _____          C-2 Subcl./Dom. _____          C-3 Subcl./Dom. _____          Special Modifier _____          Codes _____ Cl% _____</p>
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<p>B. System RIVERINE</p> <p>1. Subsys./Cl. _____          A-1 Subcl./Dom. _____          A-2 Subcl./Dom. _____          A-3 Subcl./Dom. _____          Special Modifier _____          Codes _____ Cl% _____</p> <p>2. Subsys./Cl. _____          B-1 Subcl./Dom. _____          B-2 Subcl./Dom. _____          B-3 Subcl./Dom. _____          Special Modifier _____          Codes _____ Cl% _____</p>	<p>D. System ESTUARINE</p> <p>1. Subsys./Cl. <u>intertidal/emergent</u>          A-1 Subcl./Dom. <u>perovis/Scirpus acutus</u>          A-2 Subcl./Dom. _____          A-3 Subcl./Dom. _____          Special Modifier _____          Codes <u>EZEN1</u> Cl% <u>60</u></p> <p>2. Subsys./Cl. _____          B-1 Subcl./Cl. _____          B-2 Subcl./Cl. _____          B-3 Subcl./Cl. _____          Special Modifier _____          Codes _____ Cl% _____</p> <p>3. Subsys./Cl. _____          C-1 Subcl./Dom. _____          C-2 Subcl./Dom. _____          C-3 Subcl./Dom. _____          Special Modifier _____          Codes _____ Cl% _____</p>
---	---

Wetland ID SH32281E-2

Date 21 April, 13 May 1989

Additional Plant Species:

Indicator Status:

- *Typha latifolia*
- *Carex lyngbyei*
- *Juncus spp.*
- *Trifolium maritimum*
- *Distichlis spicata*
- *Potentilla pacifica*
- *Picea sitchensis*
- *Pyrus fusca*
- *Lysichiton americanum*
- *Athyrium filix-femina*
- *Viola longisiliqua*
- *Maianthemum dialictum*

OBL  
OBL  
OBL, FACW  
OBL  
FACW  
  
FAC  
  
OBL  
FAC  
FACW  
FACW

Soils:

Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1.

2.

3.

Soil samples not necessary; soils saturated.

*Lonicera sp.*

*Ribes lacustre*

*Nuphar polysepalum*

*Phalaris arundinacea*

*Equisetum sp.*

FAC

FAC

OBL

FACW

FAC

Wetland ID SH 32281E-2

Date 21 April, 13 May 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water		✓	
2. Running water	✓		
3. Saturated soils	✓		
4. Tidal influence	✓		

Type Of Outlet:

1. None
2. Overland:    constricted    unconfined
3. Open channel: (artificial)  
    channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
- ④ Pipe: type culvert  
    diameter 14"            not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
- ⑤ Stream or river Shine Creek
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

- ① Flat wetland with impoundment capability (describe) *in a topographic depression*
2. Flat wetland without impoundment capability (describe)
3. Sloped wetland without impoundment capability (describe)

Wetland ID SH32281E-2

Date 21 April, 13 May 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags		
2. Perches		
3. Logs		
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other <i>upland hummocks (sabal)</i>		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

*mallards*



Wetland ID SH 32281E-2

Date 21 April, 13 May 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other hunting

Buffers:

Land use within 200 feet

N upland forest  
S upland forest  
E road, cleared upland  
W clearcut, upland forest

Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:

1.



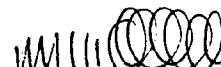
- a. site/upland  
b. upland/site  
%. \_\_\_\_\_

2.



- a. site/upland  
b. upland/site  
%. \_\_\_\_\_

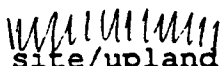
3.



- a. site/upland  
b. upland/site  
%. \_\_\_\_\_

Similar:

1.



- a. site/upland  
%. 40

2.



- a. site/upland  
%. \_\_\_\_\_

3.



- a. site/upland  
%. 60

SUMMARY

- |   | <u>YES</u> | <u>NO</u> |
|---|------------|-----------|
| 1. Wetland vegetation dominant?   | ✓          |           |
| 2. Wetland hydrology present?   | ✓          |           |
| 3. Hydric soils present?  | ✓          |           |
| 4. Is the site a wetland?   | ✓          |           |
| 5. Summary paragraph (by <u>EH</u> ): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc. |            |           |

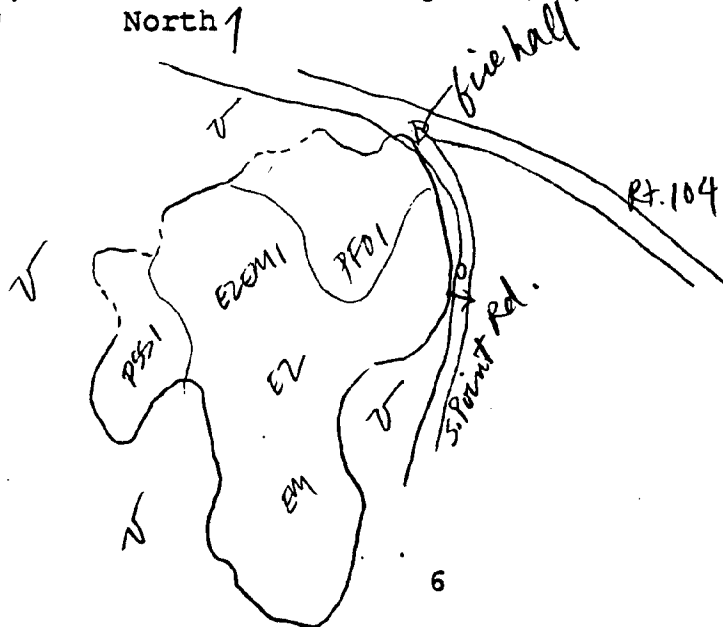
This is a beautiful estuary with a diversity of vegetation types and species. Functions as excellent wildlife habitat, and is probably a good filter. Due to a damnable outlet, this wetland may function as a moderate stormwater detainer. The buffers are for the most part good, although South Point Rd. goes along the eastern edge, and parts to the west have been clear-cut to the edge. It receives runoff from the roads and sediment from clear-cut upland areas. I found evidence of hunting.

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale = 1" = 1000'

North ↑



# Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. SH32281E-3 1/4 1/4 1/2 S T R  
 1/4 Township No. SW 1/4 of T28N, R1E all NW W 32 28 1E  
 Wetland Name \_\_\_\_\_  
 Size (Acres) \_\_\_\_\_  
 2. Team Leader Esther Howard  
 Team Members Ken Paichard  
 Date 12 May 1989 Time Begin 0900 Time End 1100  
 Access Points logging road off of Rt. 104  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather Sunny & warm

## 3. FWS Wetland Type:

### A. System PALUSTRINE

1. Class emergent  
 A-1 Subcl./Dom. Pennis/ Typha effluens  
 A-2 Subcl./Dom. Pennis/Carex diandra  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier b,h  
 Codes PEM1 Cl% 40
2. Class scrub-shrub  
 B-1 Subcl./Dom. El. decid./ Rubus spectabilis  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier b,h  
 Codes PSS1 Cl% 30
3. Class forested  
 C-1 Subcl./Dom. El. decid./ Alnus umbra  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier b,h  
 Codes PFO1 Cl% 10
4. Class open water  
 D-1 Subcl./Dom. \_\_\_\_\_  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier b,h  
 Codes POW Cl% 20

### B. System RIVERINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### C. System LACUSTRINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### D. System ESTUARINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Cl. \_\_\_\_\_  
 B-2 Subcl./Cl. \_\_\_\_\_  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Subsys./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

Date 12 May 1989

## Indicator Status:

● Typha latifolia	OBL
Acanthe sarmentosa	OBL
Mentha sp.	-
Mortia cordifolia	-
● Viola lansdorfii	FACW
Lysiolitum americanum	OBL
Lemna minor	OBL
Liris pseudacorus	OBL
● Potamogeton sp.	OBL
Sparganium sp.	OBL
Bidens cernua	FACW+
Thuja plicata	FAC
● Ribes lacustre	FACT.

Soil type according to SCS:

Hydric? ☒ YES ☐ NO

Soil samples (Munsell Classification) 1. 7.5YR 3/2

saturated 2.54 5/1

3.

- Equisetum sp.
- Polygonum spp.
- Potentilla palustris
- Salix spp.

Wetland ID SH32281E-3

Date 12 May 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		
2. Running water		✓	
3. Saturated soils	✓		
4. Tidal influence		✓	

Type Of Outlet:

1. None
- ② Overland: constricted unconfined
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type \_\_\_\_\_  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river
6. Storm water drainage pipe
- ⑦ Other beaver dam
8. Unknown

Impoundment Capacity:

- ① Flat wetland with impoundment capability (describe) *in a topographic depression, beaver dam*
2. Flat wetland without impoundment capability (describe)
3. Sloped wetland without impoundment capability (describe)

Wetland ID SH32281E-3

Date 12 May 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags	3	
2. Perches		
3. Logs	3	
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other beaver dam		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

red wing blackbirds, otter scat, deer tracks, beaver dam

Wetland ID SH32281E-3

Date 12 May 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining *from clear cut*
- ④ Sedimentation, erosion, flooding
5. Other

Buffers:

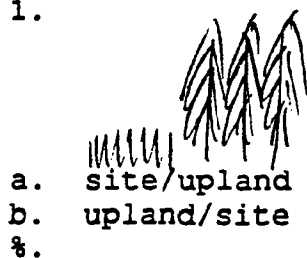
Land use within 200 feet

N *wetland, clear cut*  
S *road, upland forest*  
E *upland forest*  
W *clear cut*

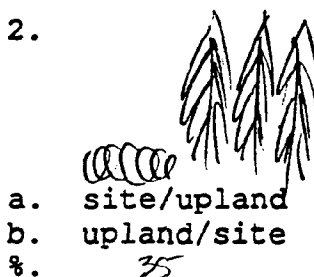
Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:

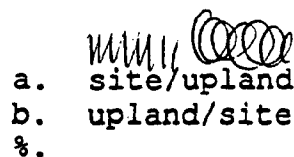
1.



2.

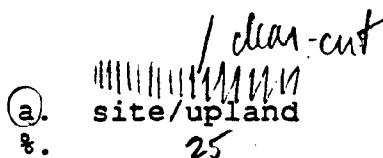


3.



Similar:

1.



2.



3.



## SUMMARY

1. Wetland vegetation dominant?
2. Wetland hydrology present?
3. Hydric soils present?
4. Is the site a wetland?

**YES**

NO

5. Summary paragraph (by EH): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc.

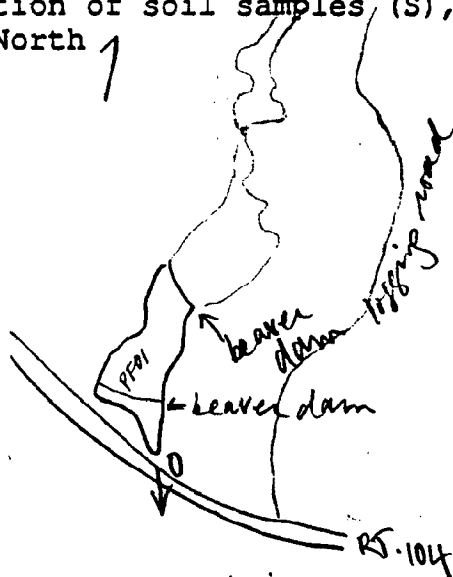
This wetland was created by a beaver dam (which appears to have been recently maintained). It is dominated by scrub-shrub and emergent vegetation, and would make an excellent biofilter. It probably can upound more water in storm conditions. Buffers are poor to moderate; there has been clear-cutting to the wetland edge. The wetland receives sediment and other runoff from clear-cut forest areas, and garbage from hunters & people who fish in the wetland. It is a beautiful site & is worth preserving for its value as a habitat.

## WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples, (S), etc.

Scale= 1" = 1000'

North





Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. SH 32281E-4      1/4   1/4   1/2   S   T   R  
 1/4 Township No. SW 1/4 of T28N, R1E      NE   NW   W   32   28   1E  
 Wetland Name \_\_\_\_\_  
 Size (Acres) \_\_\_\_\_  
 2. Team Leader Esther Howard  
 Team Members Ken Trichard  
 Date 12 May 1989      Time Begin 1208      Time End 1305  
 Access Points logging roads off of Rt. 104  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather sunny + warm

3. FWS Wetland Type:

A. System PALUSTRINE

1. Class open water  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier b, h  
 Codes P0W      Cl% 75
2. Class emergent  
 B-1 Subcl./Dom. perov / Typha latifolia  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PEN1      Cl% 10
3. Class scrub-shrub  
 C-1 Subcl./Dom. N. evergreen / Thuja plicata  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PSS4      Cl% 5
4. Class forested  
 D-1 Subcl./Dom. Elm / Alnus incana  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PFD1      Cl% 10

B. System RIVERINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

C. System LACUSTRINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

D. System ESTUARINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Cl. \_\_\_\_\_  
 B-2 Subcl./Cl. \_\_\_\_\_  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Subsys./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

Wetland ID SH 32281E-4

Date 12 May 1989

Additional Plant Species:

• *Thuja plicata*  
• *Sambucus racemosa*  
• *Rhamnus purshiana*  
• *Lemna minor*  
• *Juncus effusus*  
• *Ranunculus repens*  
• *Solanum dulcamara*

Indicator Status:

FAC

FACU

FAC

OBL

FACWT

FACW

FAC

-----  
Soils:

• Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1.

2.

3.

no samples were necessary, as the soils were saturated.

Wetland ID 2H 322.81E-4

Date 12 May 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		~ 1 1/2'
2. Running water		✓	
3. Saturated soils	✓		
4. Tidal influence		✓	

Type Of Outlet:

1. None
2. Overland: constricted    unconfined
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
- ⑤ Other *beaver dam*
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
- ⑤ Stream or river *Shine Creek*
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

- ① Flat wetland with impoundment capability (describe) *in a topographic depression, beaver dam*
2. Flat wetland without impoundment capability (describe)
3. Sloped wetland without impoundment capability (describe)

Wetland ID SH32281E-4 Date 12 May 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags	3	
2. Perches	2	
3. Logs	1	
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

beaver dam

Wetland ID SH 32281E-4

Date 12 May 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other *trails*

Buffers:

Land use within 200 feet

N *clear-cut, upland forest*  
S *wetland, upland forest*  
E *upland forest, clear cut*  
W *upland forest, clear cut*

Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:

1.

a. site/upland  
b. upland/site  
%.                     

2.

a. site/upland  
b. upland/site  
%. 25

3.

a. site/upland  
b. upland/site  
%.                     

Similar:

1.

a. site/upland  
%. 45

2.

a. site/upland  
%.                     

3.

a. site/upland  
%. 30

SUMMARY

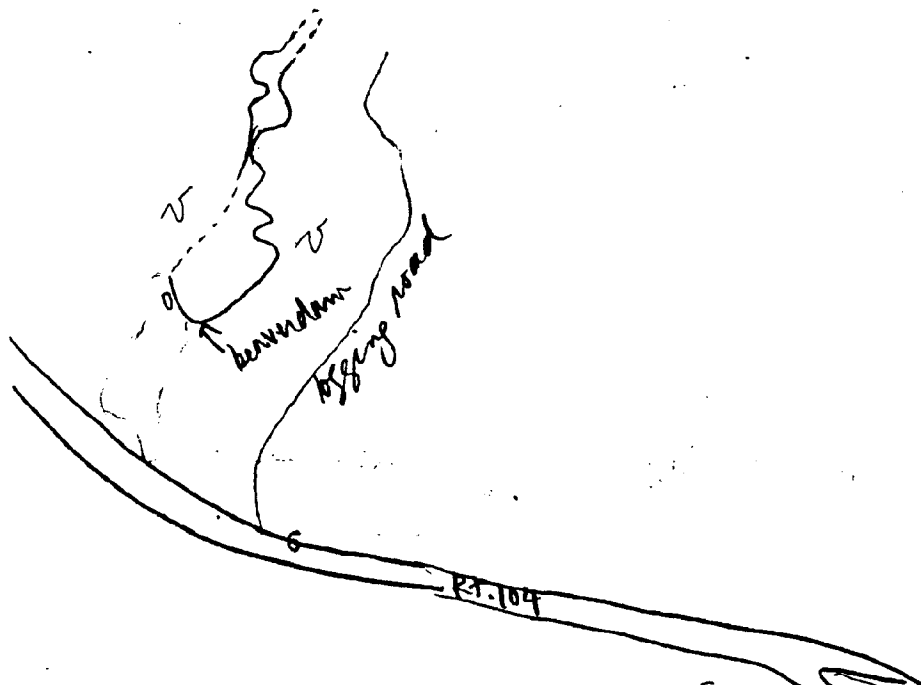
- |   | <u>YES</u> | <u>NO</u> |
|---|------------|-----------|
| 1. Wetland vegetation dominant?   | ✓          |           |
| 2. Wetland hydrology present?   | ✓          |           |
| 3. Hydric soils present?  | ✓          |           |
| 4. Is the site a wetland?   | ✓          |           |
| 5. Summary paragraph (by <u>EH</u> ): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc. |            |           |

*This wetland was created by a beaver dam. It provides excellent habitat for wildlife, although buffers are poor (due to clear-cuts). It would serve as a moderate biofilter. Sediment from clear-cut upland areas impacts this wetland, as does garbage.*

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale= North



# Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. TA27223W-1 1/4 1/4 1/2 S T R  
 1/4 Township No. SE 1/4 of T. 22 N, R 3 W NE & NW NW W 27 22 3W  
 Wetland Name NW SW W 27 22 3W  
 Size (Acres) SW SE E 22 22 3W

2. Team Leader Esther Howard  
 Team Members Donna Alker  
 Date 5 May 1989 Time Begin 0835 Time End 1040  
 Access Points Rt. 300 bridge, NE Brook Place  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather Sunny & cool

## 3. FWS Wetland Type:

### A. System PALUSTRINE

1. Class \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
4. Class \_\_\_\_\_  
 D-1 Subcl./Dom. \_\_\_\_\_  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### B. System RIVERINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### C. System LACUSTRINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### D. System ESTUARINE

1. Subsys./Cl. intertidal emergent  
 A-1 Subcl./Dom. pois / Scirpus marit.  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes E2EM1 Cl% 20
2. Subsys./Cl. intertidal / non consolidated  
 B-1 Subcl./Cl. mud  
 B-2 Subcl./Cl. sand  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes E2US3 Cl% 80
3. Subsys./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

## Additional Plant Species:

## Indicator Status:

*Salicornia virginica*  
*Glaux maritima*  
*Plantago maritima*  
*Triglochin maritimum*  
*Juncus* sp.  
*Carex lyngbyei*  
*Distichlis spicata*  
*Potentilla pacifica*  
*Grindelia integrifolia*  
*Ulva* spp.  
*Enteromorpha* sp.  
*Fucus* sp.  
*Zostera marina*

OBL  
FACW+  
FACW+  
OBL  
—  
OBL  
FACW  
—  
FACW  
OBL  
OBL  
OBL  
OBL

Soils:

Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1.

2.

3.

No samples; soils were saturated + intertidal.



Wetland ID TA272234-1

Date 5 May 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water		✓	
2. Running water	✓		
3. Saturated soils	✓		
4. Tidal influence	✓		

Type Of Outlet:

1. None
2. Overland: constricted unconstricted
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river Tahuya
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

1. Flat wetland with impoundment capability (describe)
2. Flat wetland without impoundment capability (describe) empties into Hood Canal
3. Sloped wetland without impoundment capability (describe)

Wetland ID TA27223W-1 Date 5 May 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags		
2. Perches		~5
3. Logs	2%	
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

great blue heron, bald eagle, waterfowl

Wetland ID TA27223W-1

Date 5 May 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, road garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other


Buffers:


Land use within 200 feet

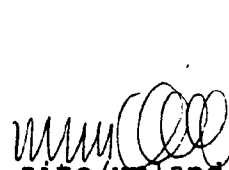
N road, residential  
S Hood Canal  
E upland forest, residential  
W upland forest, road

Which of the following best represents the difference in height between the wetland and the surrounding upland?

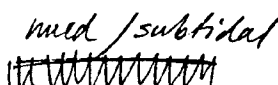
Different:


1.   
a. site/upland  
b. upland/site  
%. 75


2.   
a. site/upland  
b. upland/site  
%. \_\_\_\_\_

3.   
a. site/upland  
b. upland/site  
%. \_\_\_\_\_

Similar:

1.   
a. site/upland  
%. 25

2.   
a. site/upland  
%. \_\_\_\_\_

3.   
a. site/upland  
%. \_\_\_\_\_

SUMMARY

1. Wetland vegetation dominant?
2. Wetland hydrology present?
3. Hydric soils present?
4. Is the site a wetland?

YESNO

✓

✓

✓

✓

5. Summary paragraph (by EH): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc.

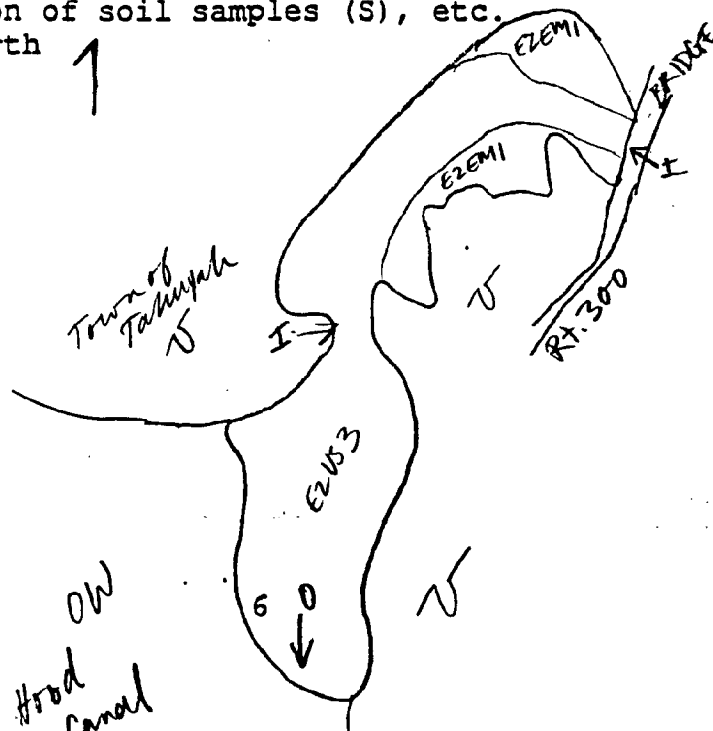
This form describes the Tahquamenon estuary south of the bridge. It is dominated by emergent vegetation, transitioning into mud and sand going downstream. It is excellent habitat for waterfowl, and we observed an adult bald eagle. It appears to have the capacity to act as a sediment trap. The buffers to the south are good, but overall the road and parking area minimize the effects.

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale = 1" = 100'

North



# Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. TA 27223W-2 1/4 1/4 1/2 S T R  
 1/4 Township No. SE 1/4 of T22N, R3W NE NE E 27 22 34  
 Wetland Name \_\_\_\_\_  
 Size (Acres) \_\_\_\_\_  
 2. Team Leader Esther Howard  
 Team Members Donna Alben  
 Date 5 May 1989 Time Begin 1130 Time End 1225  
 Access Points bridge, dirt road along E. shore  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather sunny & warm

## 3. FWS Wetland Type:

### A. System PALUSTRINE

1. Class \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
4. Class \_\_\_\_\_  
 D-1 Subcl./Dom. \_\_\_\_\_  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### B. System RIVERINE

1. Subsys./Cl. tidal / up to 100 ft tidal bottom  
 A-1 Subcl./Dom. mud  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes RIVE3 Cl% 25
2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### C. System LACUSTRINE

1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

### D. System ESTUARINE

1. Subsys./Cl. intertidal / emergent  
 A-1 Subcl./Dom. marsh / lowly / high  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes E2EM1 Cl% 75
- Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Cl. \_\_\_\_\_  
 B-2 Subcl./Cl. \_\_\_\_\_  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_
3. Subsys./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

Wetland ID TA27223W-2

Date 5 May 1989

Additional Plant Species:

Indicator Status:

*Juncus sp.*  
*Potentilla pacifica*  
*Triglochin maritimum*  
*Glarex maritima*

—  
—  
OBL  
FACWT

Soils:

Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1.

2.

3.

We didn't take samples. Soils were saturated & tidally influenced

Wetland ID TA27223W-2

Date 5 May 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		
2. Running water	✓		
3. Saturated soils	✓		
4. Tidal influence	✓		

Type Of Outlet:

1. None
2. Overland: constricted *Tahuyah River* unconfined
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river *Tahuyah*
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

1. Flat wetland with impoundment capability (describe)
2. Flat wetland without impoundment capability (describe) *no damnable outlet*
3. Sloped wetland without impoundment capability (describe)

Wetland ID TA27223W-2

Date 5 May 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
①. Snags	/	
2. Perches		
③. Logs	/	
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

● *Killdeer*



Wetland ID TA27223W-2

Date 5 May 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging

2. Pollution: runoff, garbage, sewage

3. Agricultural or Commercial: pasture, cultivated field, peat-mining <sup>not currently</sup>

4. Sedimentation, erosion, flooding

5. Other hunting


Buffers:


Land use within 200 feet


N upland forest  
S dirt road, upland forest  
E upland forest  
W wetland

Which of the following best represents the difference in height between the wetland and the surrounding upland?

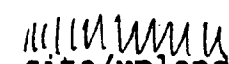
Different:

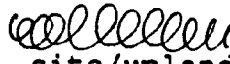
1.   
a. site/upland  
b. upland/site  
%. 95

2.   
a. site/upland  
b. upland/site  
%.           

3.   
a. site/upland  
b. upland/site  
%.           

Similar:

1.   
a. site/upland  
%.           

2.   
a. site/upland  
%.           

3.   
a. site/upland  
%. 5

SUMMARY

- |   | <u>YES</u> | <u>NO</u> |
|---|------------|-----------|
| 1. Wetland vegetation dominant?   | ✓          |           |
| 2. Wetland hydrology present?   | ✓          |           |
| 3. Hydric soils present?  | ✓          |           |
| 4. Is the site a wetland?   | ✓          |           |
| 5. Summary paragraph (by <u>EH</u> ): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc. |            |           |

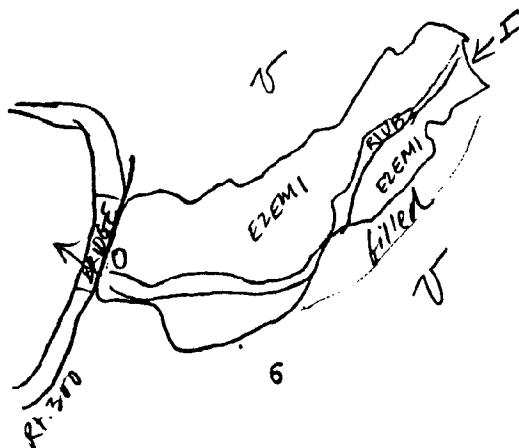
This is an estuarine system associated with the Tabasco River, dominated by emergent Carex lyngbyei and Glauca maritima. It provides good habitat for deer, waterfowl, and raptors. The vegetation could potentially slow down storm water, but not retain it. It is impacted by hunting and filling.

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale = 1" = 1000'

North ↑



Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. TA23223W-3      1/4   1/4   1/2   S   T   R  
 1/4 Township No. SE 1/4 of T22N, R3W      all   SW   W   23   22   3W  
 Wetland Name \_\_\_\_\_  
 Size (Acres) \_\_\_\_\_
2. Team Leader Esther Howard  
 Team Members Dorothy Martin, Clarence Martin, Celia Parrot, Emily Lawrence  
 Date May 9 May   Time Begin N/A   Time End N/A  
 Access Points dirt road along E shore of Takuya L  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather cloudy & cool
3. FWS Wetland Type:
  - A. System PALUSTRINE
    1. Class scrub-shrub  
 A-1 Subcl./Dom. W. decid/Salix spp.  
 A-2 Subcl./Dom. B. decid/Spiza douglasii  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PSS1      Cl% 75
    2. Class emergent  
 B-1 Subcl./Dom. peris/Carex douglasii  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PER1      Cl% 15
    3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_
    4. Class \_\_\_\_\_  
 D-1 Subcl./Dom. \_\_\_\_\_  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_
  - B. System RIVERINE
    1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_
    2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_
  - C. System LACUSTRINE
    1. Subsys./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_
    2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_
    3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_
  - D. System ESTUARINE
    1. Subsys./Cl. intertidal/emergent  
 A-1 Subcl./Dom. peris/Carex lyngbye  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes ETERN1      Cl% 10
    2. Subsys./Cl. \_\_\_\_\_  
 B-1 Subcl./Cl. \_\_\_\_\_  
 B-2 Subcl./Cl. \_\_\_\_\_  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_
    3. Subsys./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_      Cl% \_\_\_\_\_

## Additional Plant Species:

## Indicator Status:

<i>Taraxacum</i> sp.	OBL
<i>Juncus</i> sp.	—
<i>Typha latifolia</i>	OBL
<i>Potentilla palustris</i>	—
<i>Pyrus fusca</i>	FACU
<i>Rubus occidentalis</i>	FAC
<i>Vicia longedolopis</i>	FACU
<i>Juncus effusus</i>	FACWT
<i>Rhynchospora filix-femina</i>	FAC
<i>Rosa</i> sp.	—
<i>Lonicera</i> sp.	FAC
<i>Alnus incana</i>	FAC

Soils:

Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1. 7.5 YR 3/2

2. 5 YR 3/2

3. 7.5 YR 3/2

*Oenothera sarmentosa*

OBL

*Lysichiton americanum*

OBL

*Glycyrrhiza* sp.

—

Wetland ID TA 23223W-3

Date 7 May, 9 May 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		
2. Running water	✓		
3. Saturated soils	✓		
4. Tidal influence	✓		

Type Of Outlet:

1. None
2. Overland: constricted unconfined
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

1. Flat wetland with impoundment capability (describe)
2. Flat wetland without impoundment capability (describe) *not dammable*
3. Sloped wetland without impoundment capability (describe)

Wetland ID TA 23223W-3

Date July, 9 Aug 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags	1	
2. Perches		
3. Logs		
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

• deer tracks, otter scat, pileated woodpecker, marsh wren, hummingbird

Wetland ID TA23223W-3

Date 7 May, 9 May 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

1. Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other

Buffers:


Land use within 200 feet

N *upland forest, residential*  
S *cleared upland, upland forest*  
E *upland forest*  
W *upland forest*


Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:

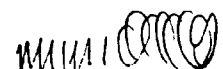
1.

  
a. site/upland  
b. upland/site  
%. 10

2.

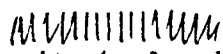
  
a. site/upland  
b. upland/site  
%.           

3.

  
a. site/upland  
b. upland/site  
%. 75

Similar:


1.

  
a. site/upland  
%. 15

2.

  
a. site/upland  
%.           

3.

  
a. site/upland  
%.

## SUMMARY

- |   | <u>YES</u> | <u>NO</u> |
|---|------------|-----------|
| 1. Wetland vegetation dominant?   | ✓          |           |
| 2. Wetland hydrology present?   | ✓          |           |
| 3. Hydric soils present?  | ✓          |           |
| 4. Is the site a wetland?   | ✓          |           |
| 5. Summary paragraph (by <u>EH</u> ): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc. |            |           |

*This is a primarily scrub-shrub wetland at the upper limits of salt influence on the Takuia. Areas appear to have been filled, and there appear to have been altered by beaver activity. It is a excellent habitat for a number of different animals, such as waterfowl, otters, deer, otters, and potentially coyotes & raccoons. This wetland has water retention capabilities, but would slow down stormwater. It is a side buffer of upland forest.*

## WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale = 1" = 1000'

North ↑





# Hood Canal Coordinating Council Wetland Inventory Data Form

1. Wetland No. TA 23 22 3W-4 1/4 1/4 1/2 S T R  
 1/4 Township No. SE 1/4 of T22N, R3W SW NE E 23 22 34  
 Wetland Name SE NW N \_\_\_\_\_  
 Size (Acres) \_\_\_\_\_

2. Team Leader Esther Howard  
 Team Members Olivia Passot, Emily Lawrence  
 Date 16 May 1989 Time Begin 0800 Time End 1100  
 Access Points dirt road along east shore of river  
 Landowner \_\_\_\_\_ Phone \_\_\_\_\_  
 Parcel No. \_\_\_\_\_ Weather cloudy + cool

3. FWS Wetland Type:

A. System PALUSTRINE

1. Class emergent  
 A-1 Subcl./Dom. perennial/Canx obnupta  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PEM1 Cl% 30

2. Class scrub-shrub  
 B-1 Subcl./Dom. BL decid/Salix spp.  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes PSS1 Cl% 70

3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

4. Class \_\_\_\_\_  
 D-1 Subcl./Dom. \_\_\_\_\_  
 D-2 Subcl./Dom. \_\_\_\_\_  
 D-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

B. System RIVERINE

1. Subsystem./Cl. lower perennial/irregularly flooded  
 A-1 Subcl./Dom. sand  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes R2V52 Cl% \_\_\_\_\_

2. Subsystem./Cl. \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

C. System LACUSTRINE

1. Subsystem./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

2. Class \_\_\_\_\_  
 B-1 Subcl./Dom. \_\_\_\_\_  
 B-2 Subcl./Dom. \_\_\_\_\_  
 B-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

3. Class \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

D. System ESTUARINE

1. Subsystem./Cl. \_\_\_\_\_  
 A-1 Subcl./Dom. \_\_\_\_\_  
 A-2 Subcl./Dom. \_\_\_\_\_  
 A-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

Subsystem./Cl. \_\_\_\_\_  
 B-1 Subcl./Cl. \_\_\_\_\_  
 B-2 Subcl./Cl. \_\_\_\_\_  
 B-3 Subcl./Cl. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

3. Subsystem./Cl. \_\_\_\_\_  
 C-1 Subcl./Dom. \_\_\_\_\_  
 C-2 Subcl./Dom. \_\_\_\_\_  
 C-3 Subcl./Dom. \_\_\_\_\_  
 Special Modifier \_\_\_\_\_  
 Codes \_\_\_\_\_ Cl% \_\_\_\_\_

Wetland ID TA23223W-4

Date 16 May 1987

Additional Plant Species:

Indicator Status:

*Ranunculus repens*

FACV

*Potentilla palustris*

OBL

*Juncus* sp.

FACW

*Equisetum* sp.

FAC

*Rubus spectabilis*

FAC

*Phalaris amabilis*

FACW

*Scirpus microcarpus*

OBL

*Potamogeton* sp.

OBL

*Physocarpus capitatus*

FAC+

Soils:

Soil type according to SCS: \_\_\_\_\_

Hydric? YES NO

Soil samples (Munsell Classification) 1. 10YR 3/3

2.

3.

Wetland ID TA232234-4

Date 16 May 1989

Hydrology:

	<u>Yes</u>	<u>No</u>	<u>Depth</u>
1. Standing water	✓		
2. Running water	✓		
3. Saturated soils		✓	
4. Tidal influence		✓	

Type Of Outlet:

1. None
2. Overland: constricted unconfined
3. Open channel: (artificial)  
channel width \_\_\_\_\_ channel depth \_\_\_\_\_ not measured \_\_\_\_\_
4. Pipe: type  
diameter \_\_\_\_\_ not measured \_\_\_\_\_
5. Other
6. Unknown

Type Of Inlet:

1. No visible inlet
2. Seep
3. Spring
4. Wetland (indicate type of connection)
5. Stream or river
6. Storm water drainage pipe
7. Other
8. Unknown

Impoundment Capacity:

1. Flat wetland with impoundment capability (describe)
2. Flat wetland without impoundment capability (describe) *no damnable outlet*
3. Sloped wetland without impoundment capability (describe)

Wetland ID TA23223W-4

Date 16 May 1989

Habitat Features:

	<u>Percent Cover</u>	<u>Number</u>
1. Snags	/	
2. Perches		
3. Logs		
4. Rock Outcrops		
5. Cliffs		
6. Island		
7. Other		
8. None		
9. Unknown		

Animal Species Observed: (note number of individuals, behaviors, or signs of animals such as tracks, nests, scat, etc.)

*signs of beaver*

Wetland ID TA23223W-4

Date 16 May 1989

Human Impacts: Circle all that apply, describe briefly (type, extent, etc.)

- ① Mechanical: filling, clearing, grading, trails, impoundment, ditching, draining, dredging
2. Pollution: runoff, garbage, sewage
3. Agricultural or Commercial: pasture, cultivated field, peat-mining
4. Sedimentation, erosion, flooding
5. Other

Buffers:


Land use within 200 feet

N upland forest  
S upland forest  
E riparian area  
W upland forest, riparian area


Which of the following best represents the difference in height between the wetland and the surrounding upland?

Different:


1.

  
a. site/upland  
b. upland/site  
%. \_\_\_\_\_

②.

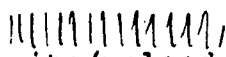
  
a. site/upland  
b. upland/site  
%. 100

3.

  
a. site/upland  
b. upland/site  
%. \_\_\_\_\_

Similar:

1.

  
a. site/upland  
%. \_\_\_\_\_

2.

  
a. site/upland  
%. \_\_\_\_\_

3.

  
a. site/upland  
%. \_\_\_\_\_

SUMMARY

- |                                 | <u>YES</u> | <u>NO</u> |
|---------------------------------|------------|-----------|
| 1. Wetland vegetation dominant? | ✓          |           |
| 2. Wetland hydrology present?   | ✓          |           |
| 3. Hydric soils present?        |            | ✓         |
| 4. Is the site a wetland?       | ✓?         |           |
5. Summary paragraph (by EH): briefly discuss open space, vegetation types, habitat feature, storm water detention, biofiltration, buffer, impacts, unique features, etc.

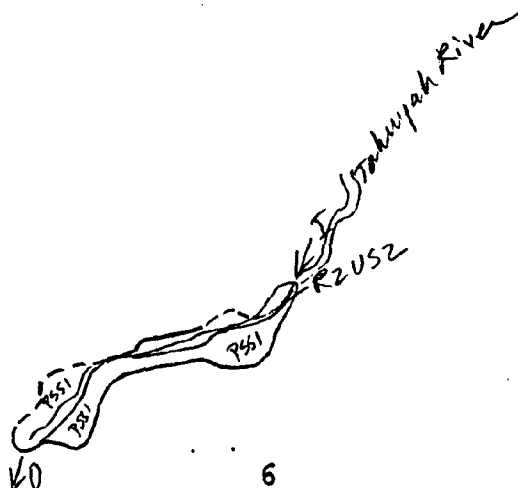
*This is a palustrine, primarily scrub-shrub wetland in the floodplain of the Tahquamenon River. It is excellent wildlife habitat, providing nesting, food, browse, and a water source.*

WETLAND SKETCH

Indicate vegetation types (USFWS codes), inlet (I), outlet (O), open water (OW), upland (U), human impacts, habitat features, photo number and direction, location of soil samples (S), etc.

Scale= 1"=1000'

North ↑



## HOOD CANAL WETLANDS INVENTORY PROJECT

The orientation field trips went very well, though the weather was somewhat nippy. Yet, we saw spring pushing through the brown grass and through the bark of boughs. We saw barkless twigs neatly chewed by beavers, we saw the first swallows early in April and ospreys in trees, ospreys in the air, even an osprey chasing an eagle. Some of you have already gotten your feet wet (boots muddied) doing field work. There will be many more opportunities to observe one of the more dynamic spring transformations: the greening of wetlands. Check the schedule below.

### FIELD SCHEDULE: APRIL TO MID-MAY

Please fill and mail the coupon at the bottom of this page

#### MILLER CREEK (Port Gamble area)

Meet at Country Corner at 8 AM

Saturday, April 29

Sunday, April 30

#### TAHUYA CREEK (Big bend in the Canal)

Meeting place to be announced (8 AM)

Friday, May 5

Saturday, May 6

Sunday, May 7

#### SHINE CREEK (West side of Hood Canal Bridge)

Meeting Place: Fire hall at the intersection of So. Point Road and Rt. 104 (8 AM)

Friday, May 12

Saturday, May 13

### PUBLIC EDUCATION

There are several educational opportunities for volunteers. Please consider participating in one of these:

- 1) Helping develop a wetlands inventory field guide for citizens.
- 2) Helping write a press release and an article about this project for the Hood Canal Coordinating Council newsletter.
- 3) Giving a short presentation at PTA or other community group meetings on wetlands protection, describing your experience and how the public can help. You need not be a pro-marshologist.
- 4) Helping conduct a field trip for local decision-makers and the general public.

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#### PLEASE MAIL COUPON TODAY TO:

KEN PRITCHARD ROOM 770 DEXTER HORTON BUILDING 710 SECOND AVENUE SEATTLE, WA 98104

NAME \_\_\_\_\_ DAY PHONE \_\_\_\_\_ EVE. PHONE \_\_\_\_\_

CREEK \_\_\_\_\_ DATE \_\_\_\_\_

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

I AM ALSO INTERESTED IN PARTICIPATING IN THE FOLLOWING EDUCATIONAL ACTIVITY:

## HOOD CANAL CITIZEN WETLANDS INVENTORY PROJECT

by Donna M. Simmons

June 1, 1989

For the past several months, a number of volunteers have accompanied a field biologist through swamps, marshes, bogs, along streams and ventured into other freshwater wetlands in three separate areas around the Hood Canal watershed. Together, they are conducting a baseline survey of wetlands which are either undocumented or poorly documented and which may not be adequately classified or protected. The results of the survey will be used to help Mason, Kitsap and Jefferson counties in making long term land use decisions.

These activities are an essential part of The Hood Canal Citizen Wetlands Inventory Project, sponsored by the Hood Canal Coordinating Council in cooperation with Adopt-A-Beach. The project is being funded by a Coastal Zone Management grant administered by the Washington State Dept. of Ecology. It was motivated by government and public concern over the continued loss of critical wetlands, recent legislative failures to provide protection, the lack of resources to collect the necessary data and the need for education in wetlands issues. Clyde Stricklin, Kitsap County Planner, explained the benefits of the project by stating "The value of the project is in building awareness on the part of people who live and work in the watershed - to get to know their area better. It's possible they might then bring that knowledge to other things that go on



in the county, like land use planning and review of applications for development and in raising awareness on the part of their appointed or elected officials."

In addition to providing valuable assistance to the counties, the project is designed to encourage citizen stewardship and public education in the protection of wetlands. From the very beginning, interest in and support for the wetlands project has been high. Five to ten citizens in each of the three areas (Shine Creek, Miller Creek and a section of the Tahuya River) volunteered to spend their time and energy to participate. They began by attending orientation and field training sessions where they learned how to visually assess wetland types and to collect other pertinent information, using a methodology based on the best available resources. Since then, these individuals have attended day-long field inventory trips several times in each of the drainages, recording wetland characteristics, values and functions, hydrology, boundaries, plant and wildlife communities, soil types, and human uses and impacts. One of the project volunteers, Donna Alber, expressed her feelings about working on the project this way. "It's been a real educational experience. I've learned a lot about wetland plants that I wasn't familiar with before. Along with the field trips, the Hood Canal lecture series complimented the project and added to my understanding of the importance of protecting these areas - an awareness which I hope I can bring to the attention of others who live here."

Since education is a key element of the project, as well as in the future protection of wetlands, the volunteers will also participate in educational activities. These will consist of citizen guided tours for local decision-makers and interested members of the public, presentations to community clubs and articles for various newsletters and other publications. The work of the volunteers will also be of great help toward the development of a wetlands inventory field guide for citizens.

The overall success of this project relies almost entirely on the response of local citizens who are collecting valuable information, helping to educate the public about the value of wetlands and the critical need for their protection, developing a model for use in other areas, and having fun in the process. Irrespective of individual backgrounds, these volunteers share one thing in common. They all possess the enthusiasm and dedication it takes to brave sometimes cool and drippy weather for an opportunity to experience one of nature's most quietly spectacular transformations - from winter dormancy to the brilliance of spring renewal.

Anyone wishing to find out more about the Hood Canal Citizen Wetland Inventory Project may call Ken Pritchard, Executive Director, Adopt-A-Beach, at (206)296-6544, Esther Howard, Field Biologist, at (206)786-6937, or Donna Simmons, Volunteer Coordinator, at (206)877-5747.

## HOOD CANAL WETLANDS VOLUNTEER INVENTORY PROJECT

We would like to know your opinion about this project as well as your comments and suggestions on how to improve it. Please take a few moments to complete this questionnaire and return it as soon as possible to the address on the back page.

NAME (optional) \_\_\_\_\_

1. How did you learn about this project?
2. What made you decide to be a wetlands volunteer?
3. Did you attend the 3/16-17 training in Chimacum (YES NO)  
What did you like best about it?

What did you like least?

4. Did you attend the orientation field trip (to Miller Creek on 3/31 and to Tahuya Lake on 4/1)? Which one \_\_\_\_\_  
What did you like best about it?

What did you like least?

5. Did you attend the follow-up orientation session (at the community center in Chimacum on 4/6, at the Belfair library on 4/9)? Which one \_\_\_\_\_  
What did you like best about it?

What did you like least?

6. Did you go on any of the field trips? (YES NO)  
If no, why not?

If yes, which ones and how many times each?

What did you like best about them?

What did you like least?

PLEASE GRADE THE PROGRAM

	A	B	C	D	F
1. The training/orientation <i>classes &amp; Trips</i>	--	--	--	--	--
2. The field trips	--	--	--	--	--
3. The helpfulness of the volunteer coordinators (Ken Pritchard and Donna Simmons)	--	--	--	--	--
4. The helpfulness of the field biologist (Esther Howard)	--	--	--	--	--
5. Did you learn much about wetlands in this project? (A: much, F: nothing)	--	--	--	--	--
6. Did you feel that the field biologist used your time effectively? (A: most effectively E: least effectively)___	--	--	--	--	--

What are your recommendations regarding the way the project was organized and what would you change in the future?

Do you wish to continue your involvement in this project? (YES NO)]  
If yes, how?

If no, why not?

Other comments and suggestions

PLEASE RETURN TO ADOPT A BEACH 770 DEXTER HORTON BUILDING, 710 SECOND AVENUE, SEATTLE, WA 98104

